

INPUTS 2013.1

Survey	INPUTS 2013.1
Start date	January, 1 2013
Supervisor	dr. C. Weykamp MCA Laboratory Streekziekenhuis Koningin Beatrix Winterswijk
Subscriptions	93
Result sets	91

Scores	Your score	MAP	reported
Quantitative	22	38	



3716 C. Addison
Queen Elizabeth
Gateshead

Groot Brittannië

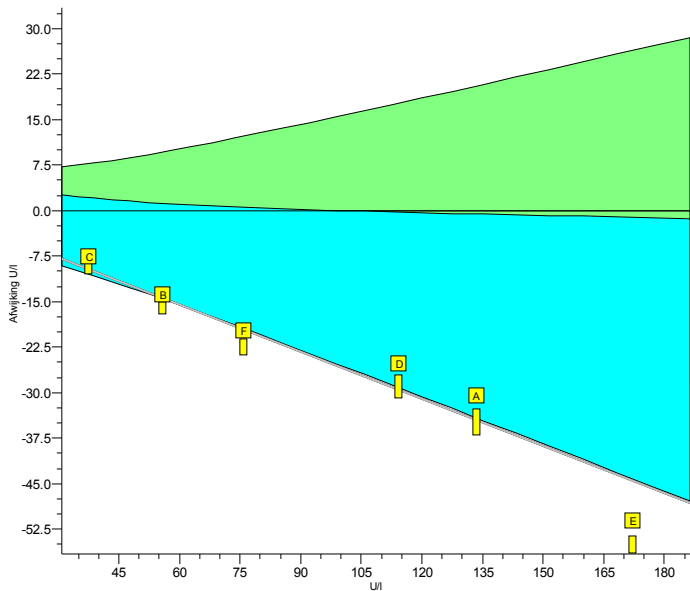
INPUTS 2013.1

Analyte		Trueness				Precision		Performance			
		your mean	ref.	cons.	SDtI	your prec.	SDbl	this survey	PS	cumulative PSc	
ALAT	U/l	73.5	98.2	85.7	7.9	2.2	2.3		0		0
Alk. Phosphatase	U/l	168	188	173	15	4	2		1		1
Amylase	U/l	173	207	175	17	5	3		0		0
ASAT	U/l	64.2	78.6	69.5	5.9	2.4	1.7		0		0
Calcium	mmol/l	88.62	2.46	2.47	0.07	130.76	0.02		1		1
Chloride	mmol/l	99.8	100.0	100.7	1.8	0.9	0.9		1		1
CK	U/l	246	244	253	18	2	3		2		2
Creatinine	µmol/l	158.0	149.1	150.7	5.6	1.8	2.1		0		0
eGFR (F, 55, white)	ml/min/1,73m ²	38.8	41.5	41.2	2.6	0.7	0.6		2		2
Gamma-GT	U/l	84.8	87.7	86.3	8.6	0.7	1.2		2		2
Glucose	mmol/l	14.07	13.93	14.19	0.44	0.12	0.18		2		2
LD	U/l	970	532	895	321	23	16		0		0
Magnesium	mmol/l	1.22	1.22	1.23	0.04	0.02	0.02		2		2
Potassium	mmol/l	5.27	5.39	5.30	0.10	0.05	0.04		1		1
Sodium	mmol/l	143.2	144.0	142.7	1.7	2.2	0.9		1		1
Total Protein	g/l	65.5	66.8	66.0	1.8	1.5	0.7		1		1
Urate	µmol/l	360	376	374	15	5	4		2		2
Cholesterol	mmol/l	5.12	5.07	5.15	0.14	0.06	0.05		2		2
HDL-Cholesterol	mmol/l	1.17	1.14	1.17	0.06	0.03	0.03		2		2
Total :									22		22

INPUTS 2013.1

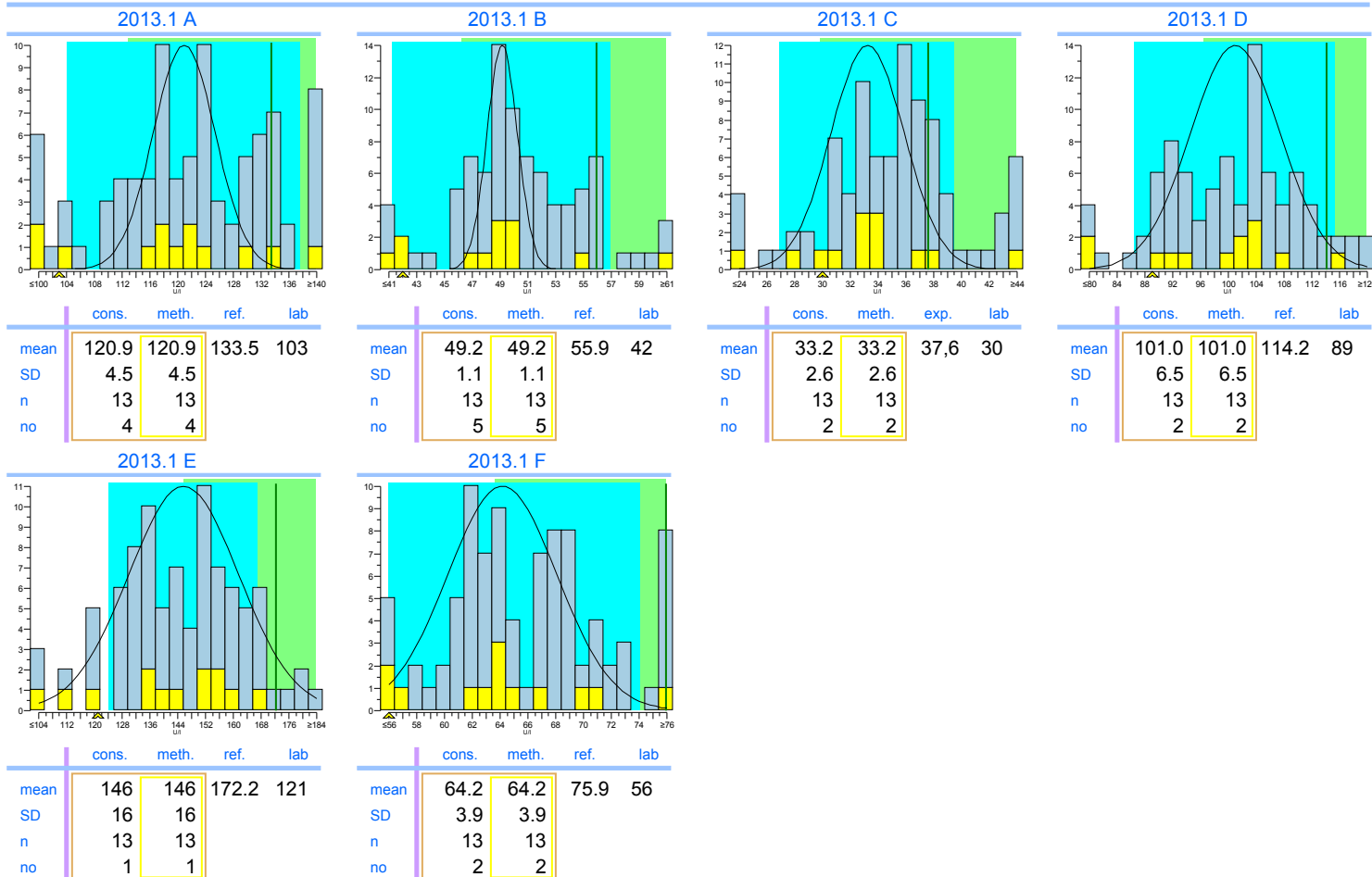
ALAT

units: U/l



	2013.1	cumulative
Trueness	-25%	-25%
Precision	2.5%	2.5%
Number	6	6
Outliers	0	0
Sigma-TE	-2.3 0	-2.3 0
Sigma-SA	-2.6	-2.6
Score pictogram		
Regression line	$0.0 + 0.741 \cdot x$	$0.0 + 0.741 \cdot x$

Consensus group: niet IFCC traceerbaar
Method: IFCC non-traceable



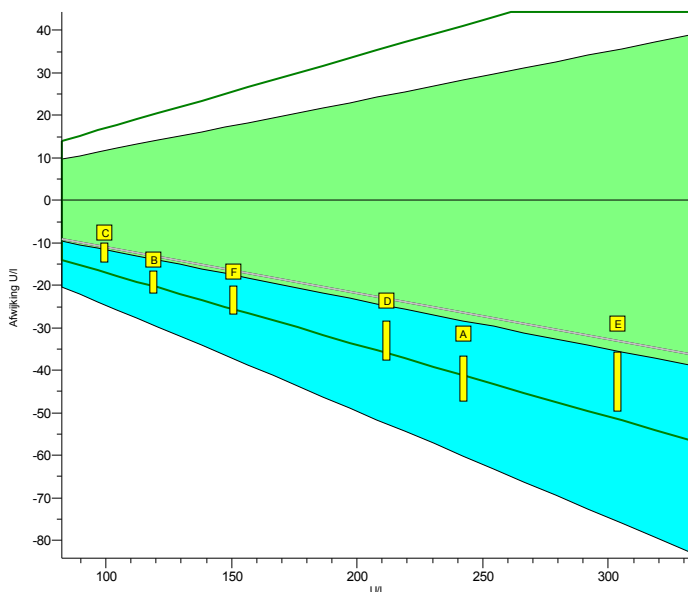
Legend



IFCC non-traceable IFCC traceable

INPUTS 2013.1

Alk. Phosphatase

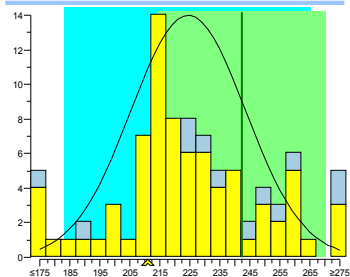
units: U/l



	2013.1	cumulative
Trueness	-11%	-11%
Precision	2.1%	2.1%
Number	6	6
Outliers	0	0
Sigma-TE	1.3	1.3
Sigma-SA	3.9 1	3.9 1
Score pictogram		
Regression line	$0 + 0.891.x$	$0 + 0.891.x$

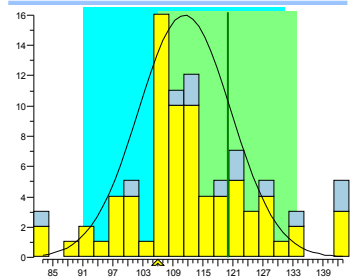
Consensus group IFCC traceerbaar
Method IFCC traceable

2013.1 A



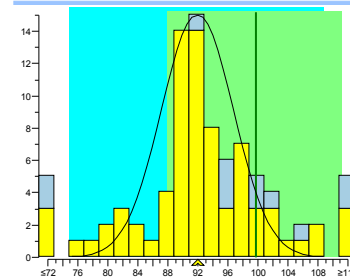
	cons.	meth.	ref.	lab
mean	224	224	242.5	211
SD	19	19		
n	77	77		
no	5	5		

2013.1 B



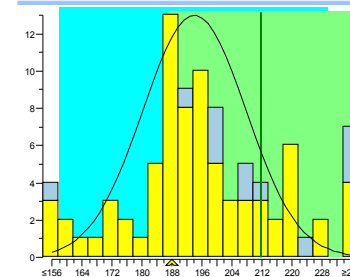
	cons.	meth.	ref.	lab
mean	110	110	119.1	105
SD	9	9		
n	77	77		
no	5	5		

2013.1 C



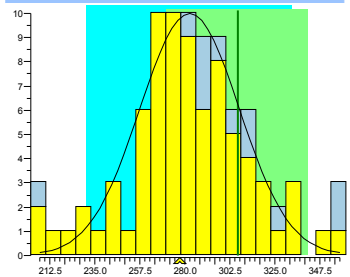
	cons.	meth.	exp.	lab
mean	92	92	99.7	92
SD	5	5		
n	76	76		
no	10	10		

2013.1 D



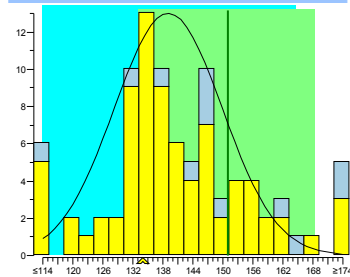
	cons.	meth.	ref.	lab
mean	194	194	211.7	188
SD	14	14		
n	77	77		
no	6	6		

2013.1 E



	cons.	meth.	ref.	lab
mean	280	280	304.0	275
SD	25	25		
n	78	78		
no	3	3		

2013.1 F



	cons.	meth.	ref.	lab
mean	139	139	150.9	134
SD	11	11		
n	78	78		
no	5	5		

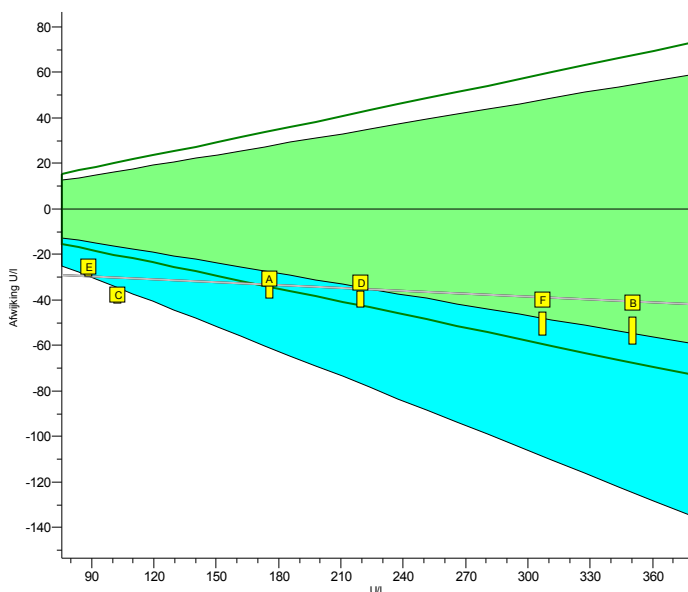
Legend



IFCC traceable IFCC non-traceable

INPUTS 2013.1

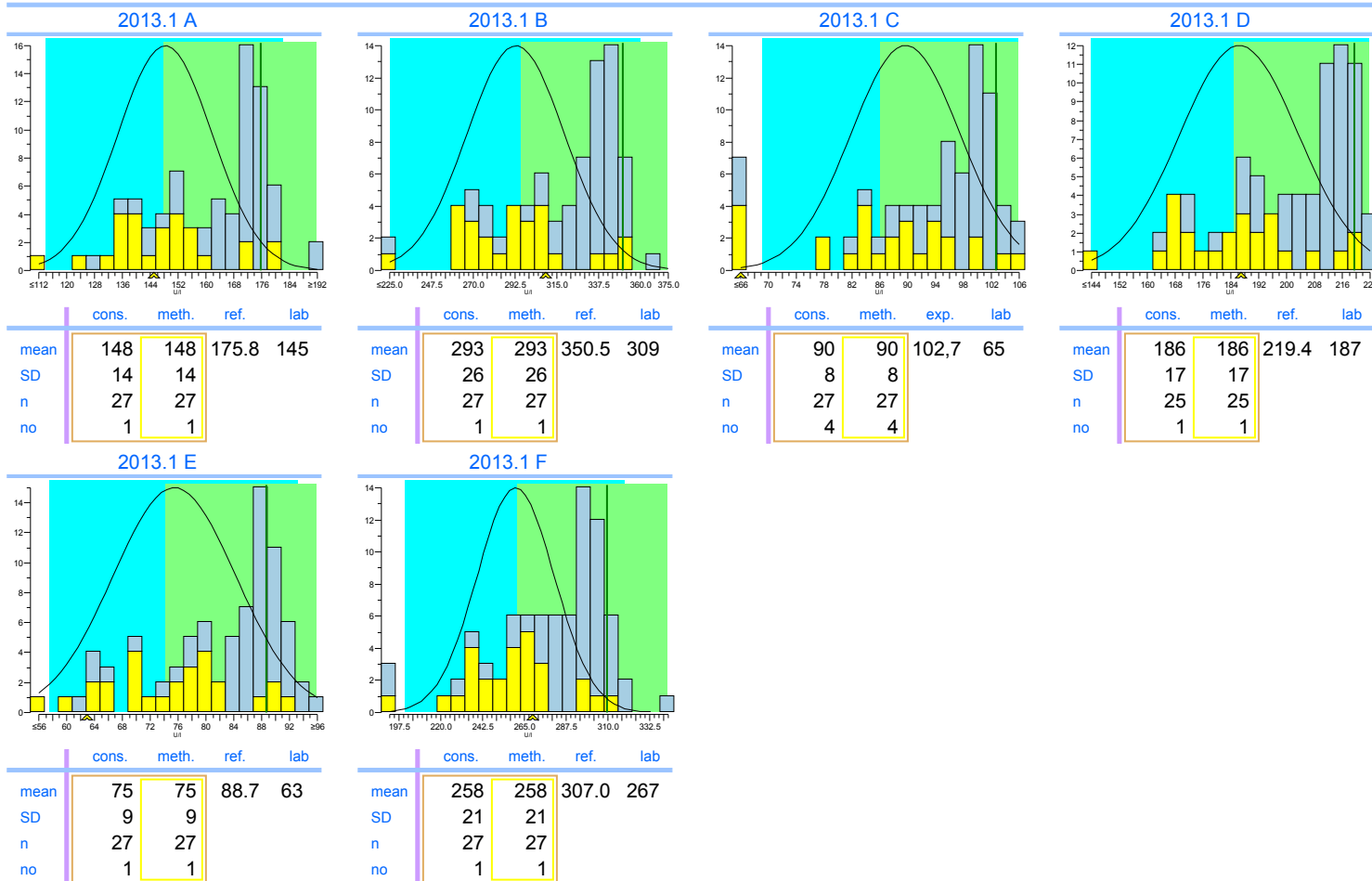
Amylase

units: U/l



	2013.1	cumulative
Trueness	-17%	-17%
Precision	2.9%	2.9%
Number	6	6
Outliers	0	0
Sigma-TE	0.1	0.1
Sigma-SA	1.6 0	1.6 0
Score pictogram		
Regression line	$-26 + 0.958.x$	$-26 + 0.958.x$

Consensus group niet IFCC traceerbaar
Method IFCC non-traceable



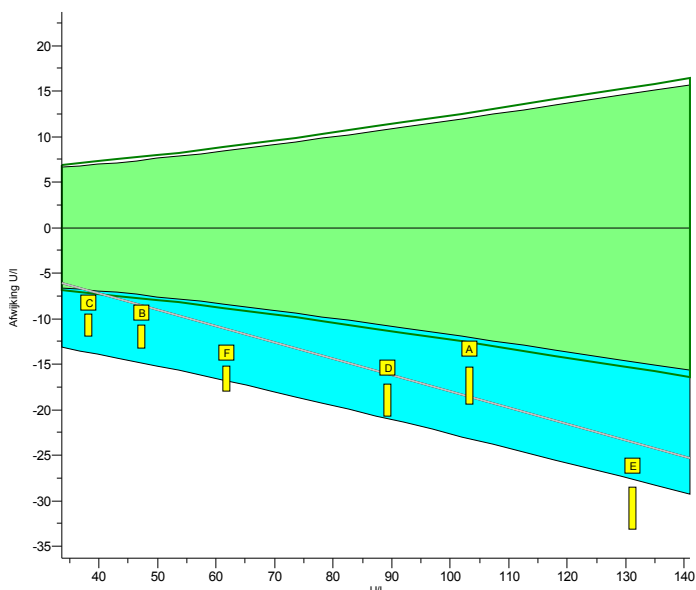
Legend

IFCC non-traceable IFCC traceable

INPUTS 2013.1

ASAT

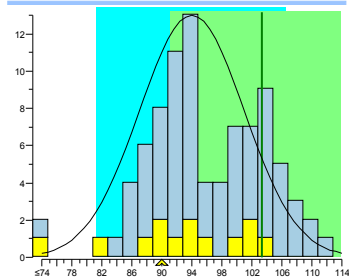
units: U/I



	2013.1	cumulative
Trueness	-18%	-18%
Precision	3.5%	3.5%
Number	6	6
Outliers	0	0
Sigma-TE	-1.5	-1.5
Sigma-SA	-1.3 0	-1.3 0
Score pictogram		
Regression line	$0.0 + 0.820 \cdot x$	$0.0 + 0.820 \cdot x$

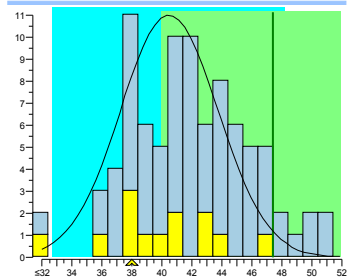
Consensus group niet IFCC traceerbaar
Method IFCC non-traceable

2013.1 A



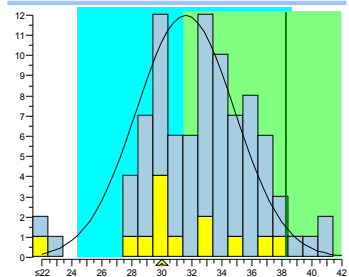
	cons.	meth.	ref.	lab
mean	94.0	94.0	103.3	90
SD	7.0	7.0		
n	13	13		
no	1	1		

2013.1 B



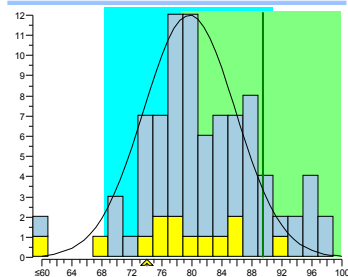
	cons.	meth.	ref.	lab
mean	40.5	40.5	47.4	38
SD	3.3	3.3		
n	13	13		
no	1	1		

2013.1 C



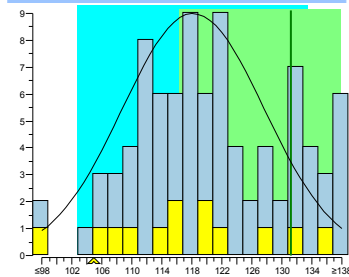
	cons.	meth.	exp.	lab
mean	31.6	31.6	38,3	30
SD	3.3	3.3		
n	13	13		
no	1	1		

2013.1 D



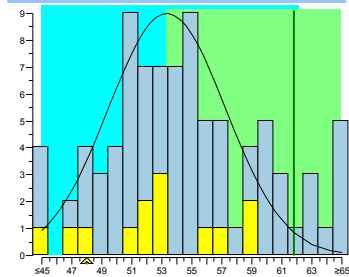
	cons.	meth.	ref.	lab
mean	79.7	79.7	89.4	74
SD	6.1	6.1		
n	13	13		
no	1	1		

2013.1 E



	cons.	meth.	ref.	lab
mean	118.2	118.2	131.2	105
SD	9.5	9.5		
n	13	13		
no	1	1		

2013.1 F



	cons.	meth.	ref.	lab
mean	53.3	53.3	61.8	48
SD	3.9	3.9		
n	13	13		
no	1	1		

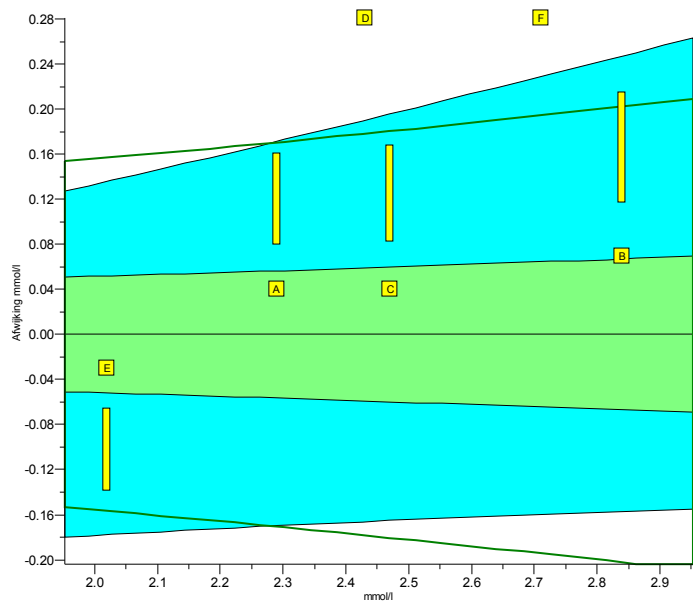
Legend

 IFCC non-traceable IFCC traceable

INPUTS 2013.1

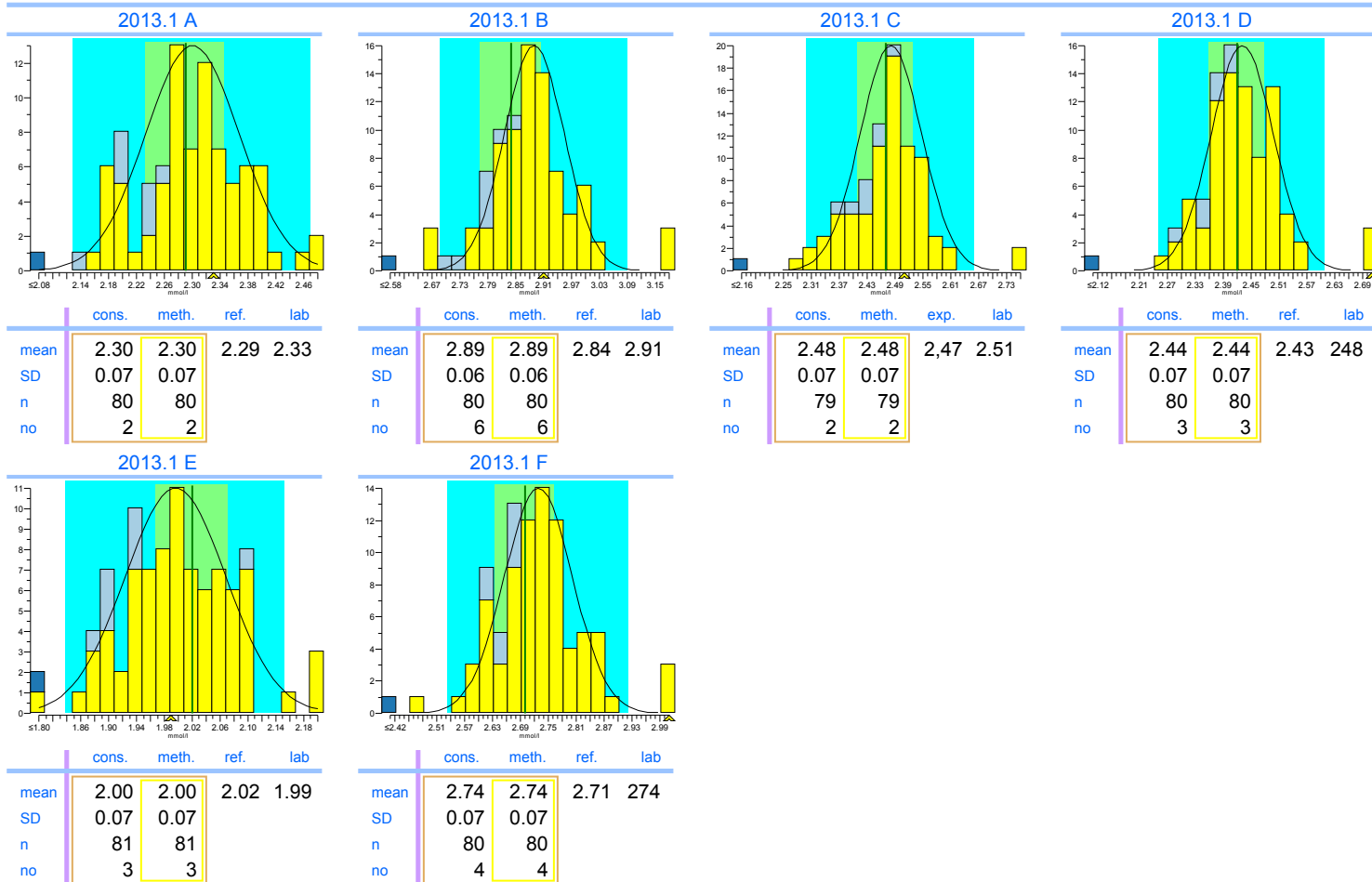
Calcium

units: mmol/l



	2013.1	cumulative
Trueness	+3503%	+3503%
Precision	5284%	5284%
Number	6	6
Outliers	0	0
Sigma-TE	-0.2	-0.2
Sigma-SA	2.2 1	2.2 1
Score pictogram	●	●
Regression line	<u>0.00 + 37.262.x</u>	<u>0.00 + 37.262.x</u>

Consensus group	Colorimetrisch
Method	Colorimetric, automatic, discrete



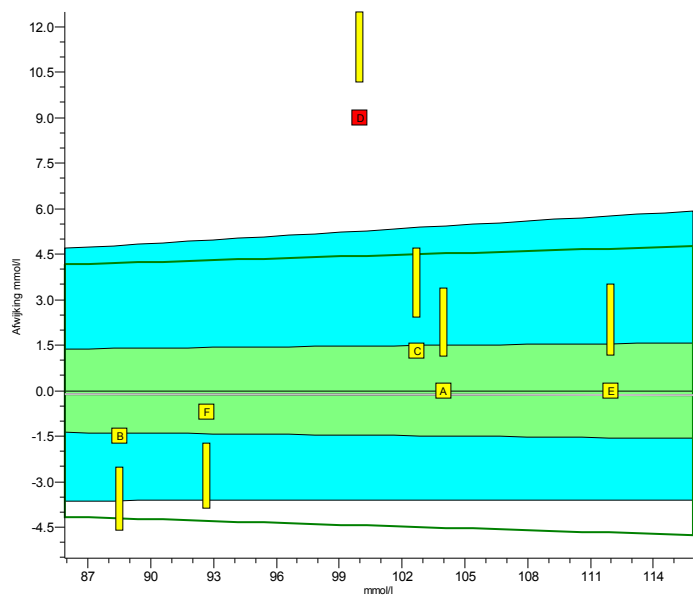
Legend



- Colorimetric, automatic, discrete
- ISE indirect (with predilution)
- Other methods

INPUTs 2013.1

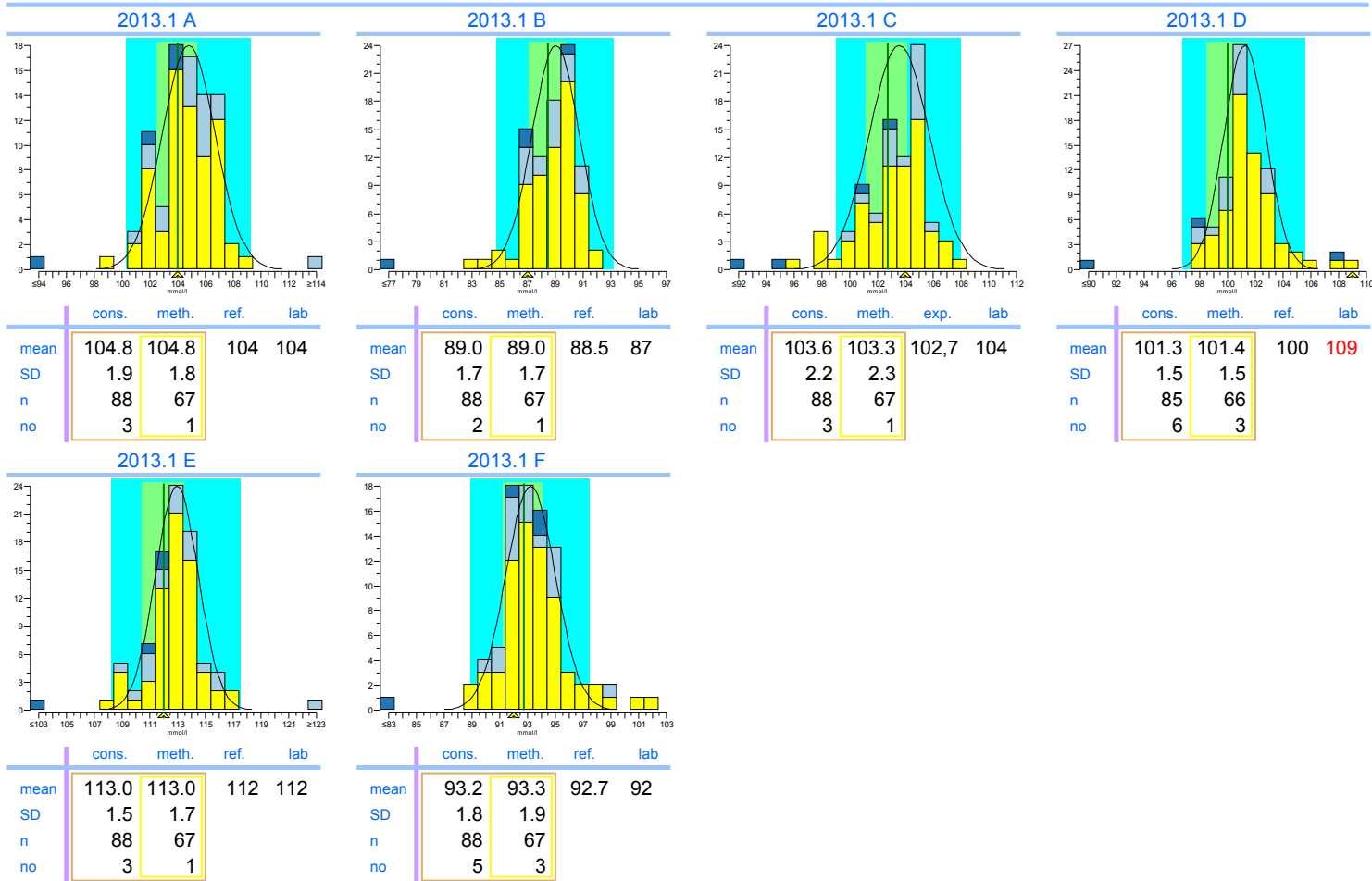
Chloride

units: mmol/l



	2013.1	cumulative
Trueness	-0.18%	-0.18%
Precision	0.93%	0.93%
Number	6	6
Outliers	1	1
Sigma-TE	0.9	0.9
Sigma-SA	3.6	3.6
Score pictogram		
Regression line	$0.0 + 0.999.x$	$0.0 + 0.999.x$

Consensus group ISE/Colorimetrie
Method ISE indirect (with predilution)



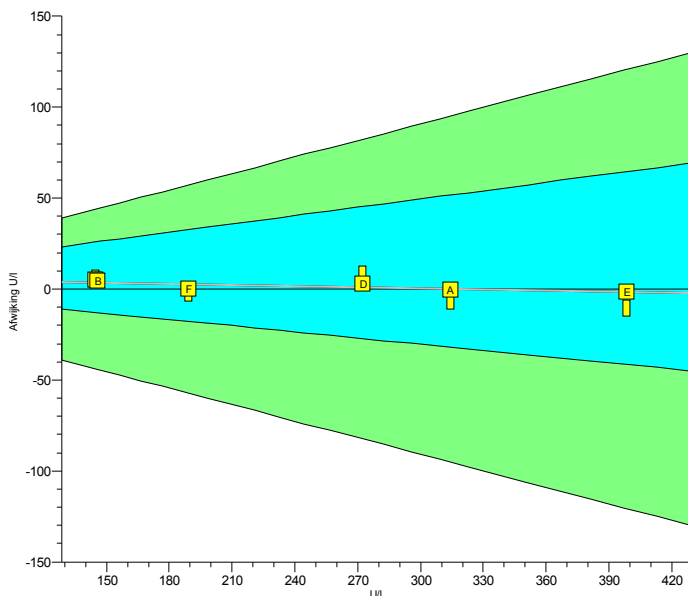
Legend



INPUTS 2013.1

CK

units: U/l



	2013.1	cumulative
Trueness	+0.68%	+0.68%
Precision	0.93%	0.93%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$7 + 0.980.x$	$7 + 0.980.x$

Consensus group	IFCC traceerbaar
Method	IFCC traceable

2013.1 A

	cons.	meth.	ref.	lab
mean	327	327	314.3	314
SD	21	21		
n	68	68		
no	2	2		

2013.1 B

	cons.	meth.	ref.	lab
mean	154	154	145.8	150
SD	8	8		
n	67	67		
no	3	3		

2013.1 C

	cons.	meth.	exp.	lab
mean	151	151	145	150
SD	8	8		
n	68	68		
no	4	4		

2013.1 D

	cons.	meth.	ref.	lab
mean	281	281	272.3	275
SD	19	19		
n	69	69		
no	2	2		

2013.1 E

	cons.	meth.	ref.	lab
mean	409	409	398.4	397
SD	30	30		
n	69	69		
no	2	2		

2013.1 F

	cons.	meth.	ref.	lab
mean	195	195	189.2	189
SD	13	13		
n	69	69		
no	2	2		

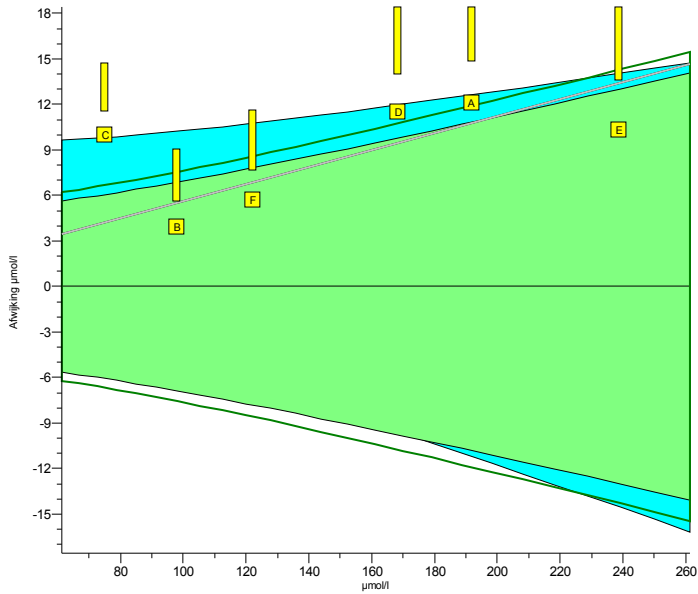
Legend



IFCC traceable IFCC non-traceable

INPUTS 2013.1

Creatinine

units: $\mu\text{mol/l}$



	2013.1	cumulative
Trueness	+6.0%	+6.0%
Precision	1.2%	1.2%
Number	6	6
Outliers	0	0
Sigma-TE	0.8	0.8
Sigma-SA	1.3 0	1.3 0
Score pictogram		
Regression line	$0.0 + 1.056.x$	$0.0 + 1.056.x$

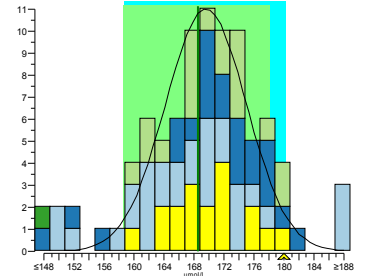
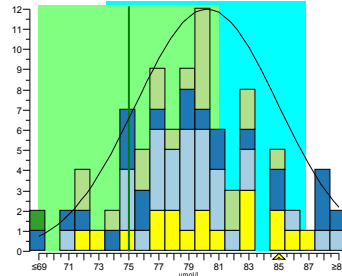
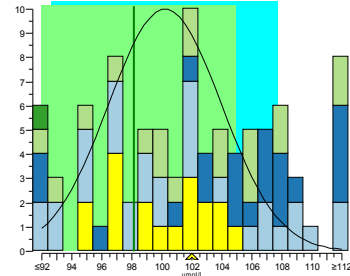
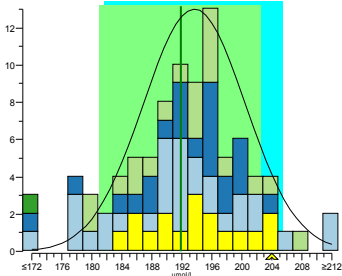
Consensus group	Enzymatische kreatinine
Method	Enzymatic, automatic

2013.1 A

2013.1 B

2013.1 C

2013.1 D



	cons.	meth.	ref.	lab
mean	193.7	193.7	191.9	204
SD	6.8	6.8		
n	17	17		
no	0	0		

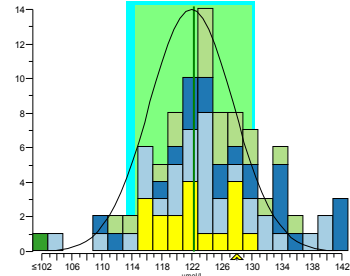
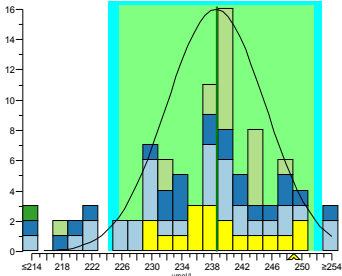
	cons.	meth.	ref.	lab
mean	100.2	100.2	98.11	102
SD	3.8	3.8		
n	18	18		
no	0	0		

	cons.	meth.	exp.	lab
mean	80.2	80.2	75	85
SD	4.7	4.7		
n	18	18		
no	0	0		

	cons.	meth.	ref.	lab
mean	169.6	169.6	168.5	180
SD	5.4	5.4		
n	18	18		
no	0	0		

2013.1 E

2013.1 F



	cons.	meth.	ref.	lab
mean	238.5	238.5	238.7	249
SD	6.6	6.6		
n	18	18		
no	0	0		

	cons.	meth.	ref.	lab
mean	121.9	121.9	122.3	128
SD	5.6	5.6		
n	18	18		
no	0	0		

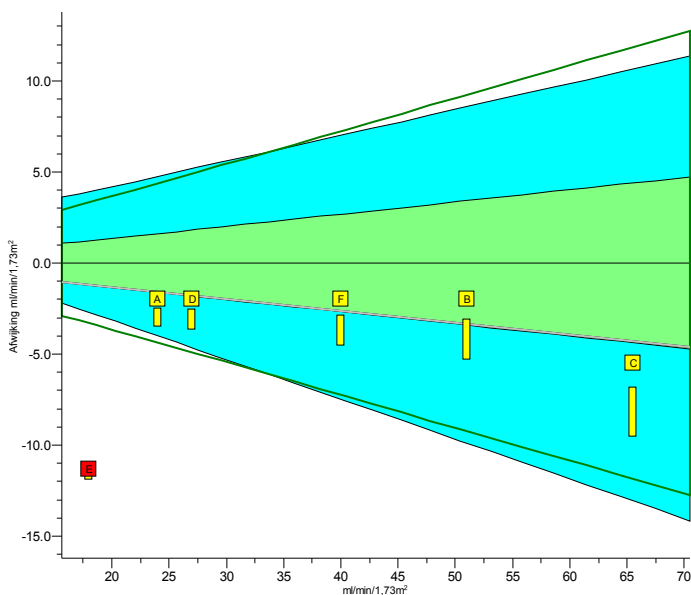
Legend

- Enzymatic, automatic
- Alk. Picrate, kinetic with compensation
- Alk. Picrate, kinetic
- Alk. Picrate, endpoint
- Other methods

INPUTS 2013.1

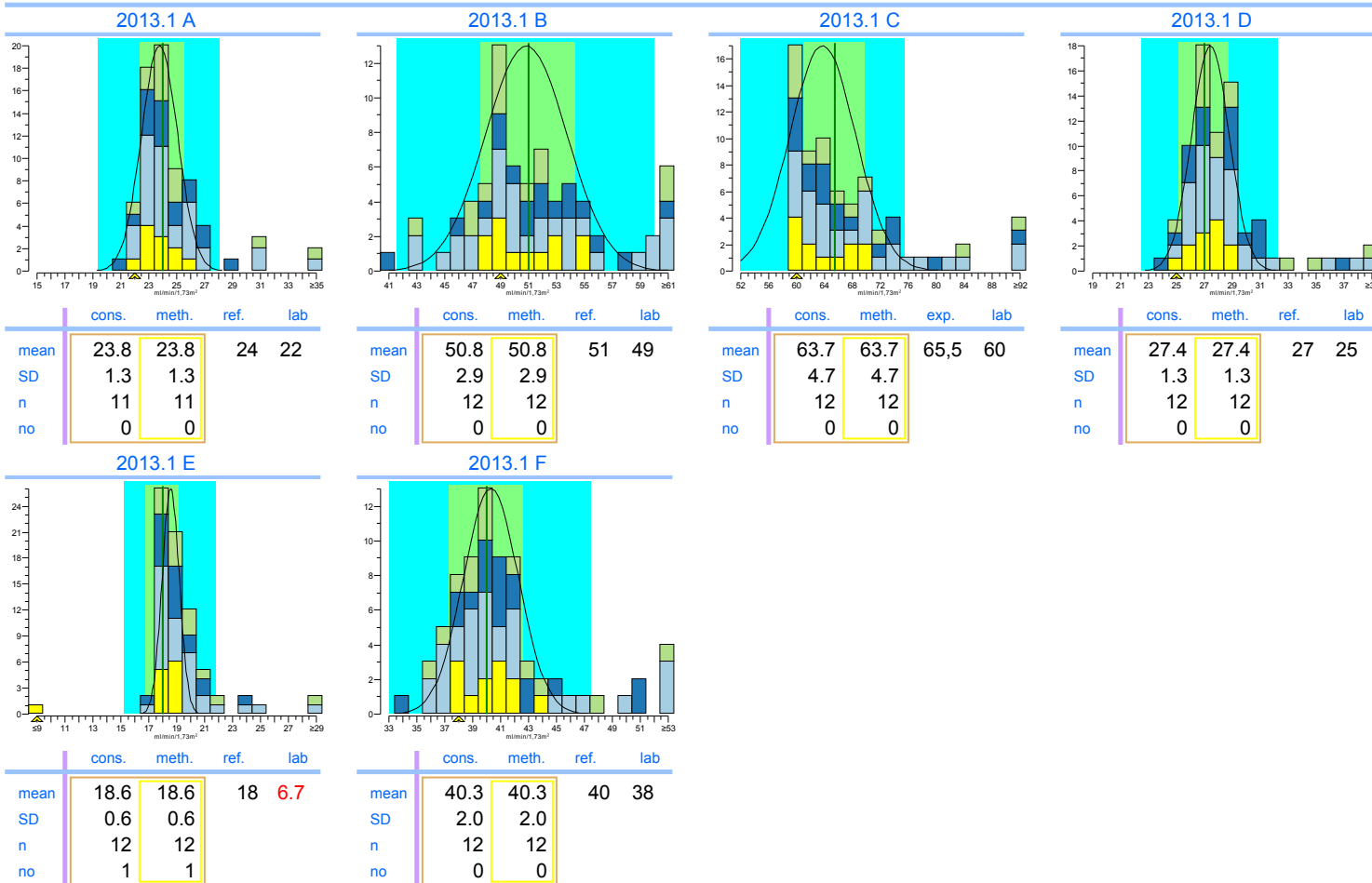
eGFR (F, 55, white)

units: ml/min/1,73m²



	2013.1	cumulative
Trueness	-6.5%	-6.5%
Precision	1.7%	1.7%
Number	6	6
Outliers	1	1
Sigma-TE	0.2	0.2
Sigma-SA	5.4 2	5.4 2
Score pictogram		
Regression line	<u>0.0 + 0.934.x</u>	<u>0.0 + 0.934.x</u>

Consensus group: Enzymatische kreatinine
Method: Enzymatic, automatic



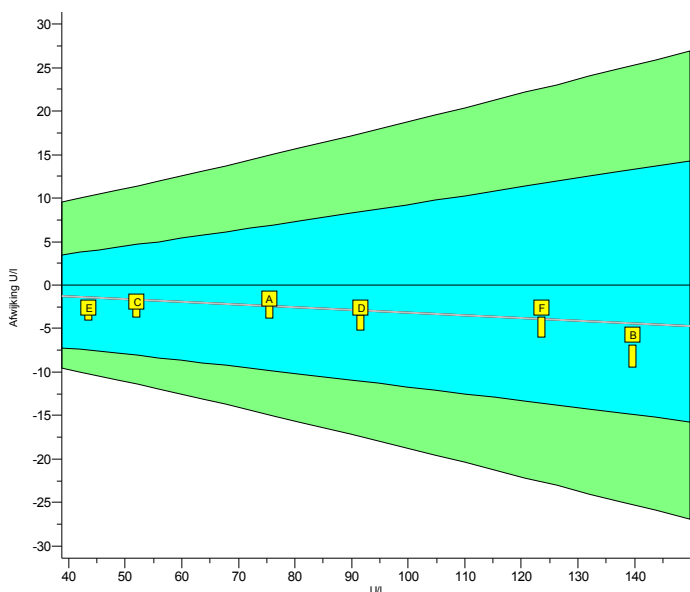
Legend



- Enzymatic, automatic
- Other methods
- Alk. Picrate, kinetic with compensation
- Alk. Picrate, kinetic

INPUTS 2013.1

Gamma-GT

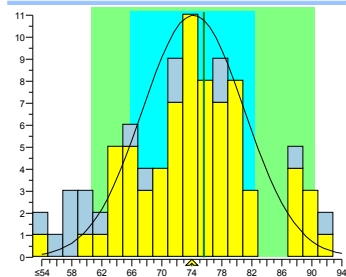
units: U/I



	2013.1	cumulative
Trueness	-3.3%	-3.3%
Precision	0.81%	0.81%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	$0.0 + 0.968.x$	$0.0 + 0.968.x$

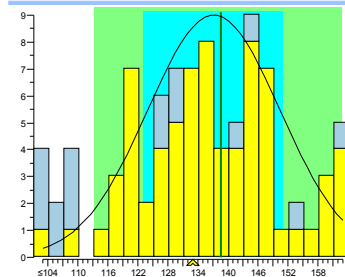
Consensus group IFCC traceerbaar
Method IFCC traceable

2013.1 A



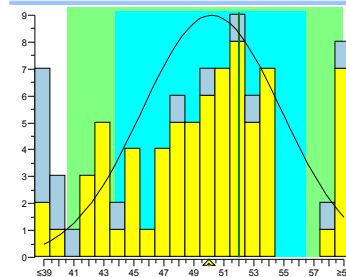
	cons.	meth.	ref.	lab
mean	74.2	74.2	75.6	74
SD	6.8	6.8		
n	72	72		
no	1	1		

2013.1 B



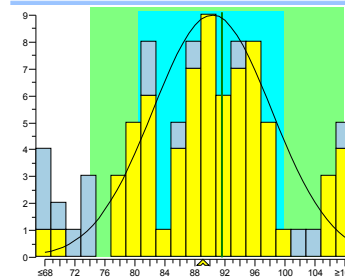
	cons.	meth.	ref.	lab
mean	138.2	138.2	139.7	134
SD	13.3	13.3		
n	72	72		
no	1	1		

2013.1 C



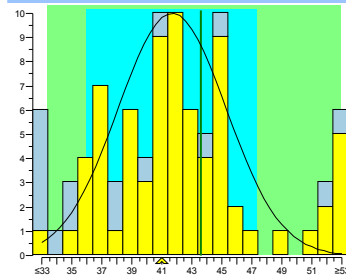
	cons.	meth.	exp.	lab
mean	50.2	50.2	52	50
SD	4.6	4.6		
n	72	72		
no	2	2		

2013.1 D



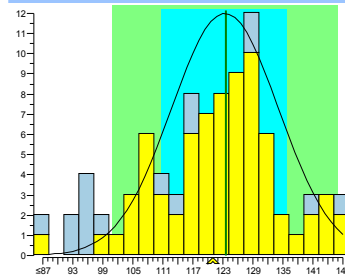
	cons.	meth.	ref.	lab
mean	90.3	90.3	91.6	89
SD	7.9	7.9		
n	71	71		
no	1	1		

2013.1 E



	cons.	meth.	ref.	lab
mean	41.7	41.7	43.6	41
SD	3.6	3.6		
n	73	73		
no	6	6		

2013.1 F



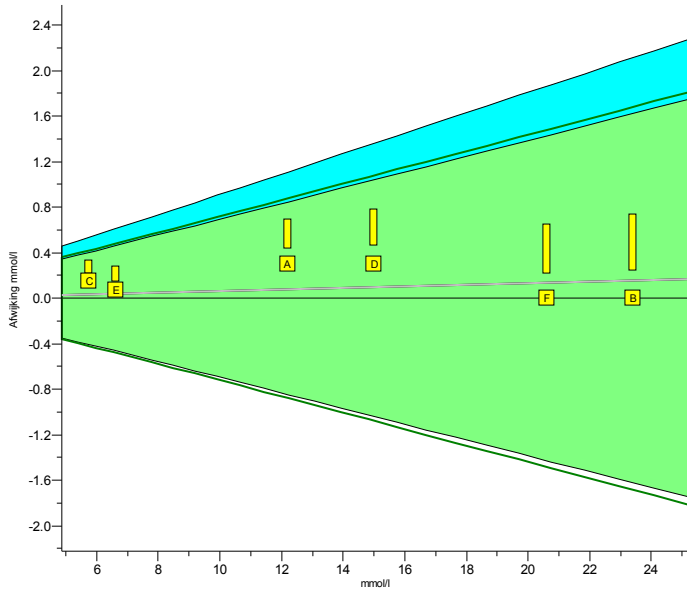
	cons.	meth.	ref.	lab
mean	123.4	123.4	123.6	121
SD	10.7	10.7		
n	73	73		
no	1	1		

Legend
 IFCC traceable
 IFCC non-traceable

INPUTS 2013.1

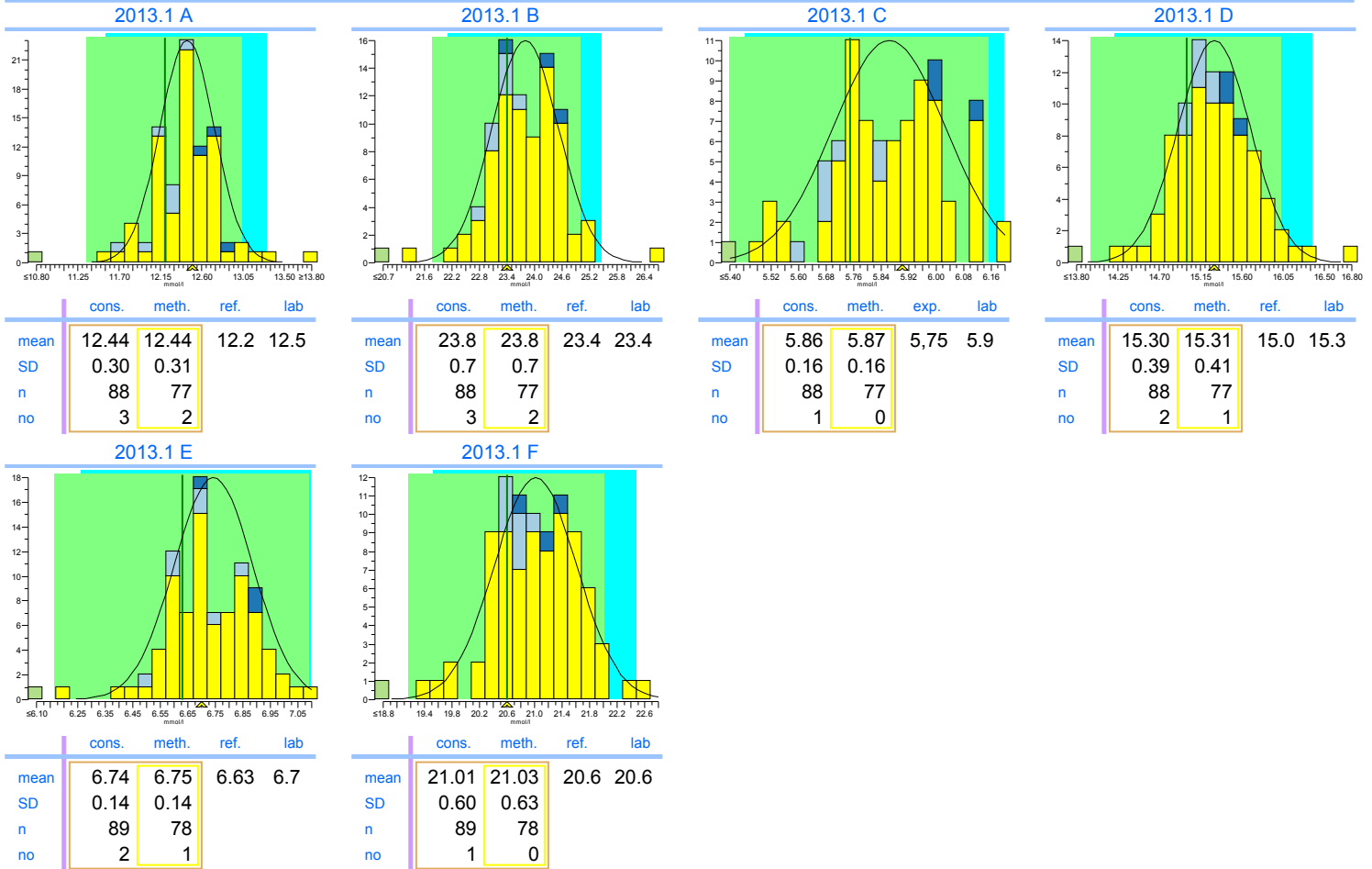
Glucose

units: mmol/l



	2013.1	cumulative
Trueness	+1.0%	+1.0%
Precision	0.85%	0.85%
Number	6	6
Outliers	0	0
Sigma-TE	6.0	6.0
Sigma-SA	6.0 2	6.0 2
Score pictogram		
Regression line	<u>0.00 + 1.007.x</u>	<u>0.00 + 1.007.x</u>

Consensus group Natte chemie
Method Hexokinase, automatic



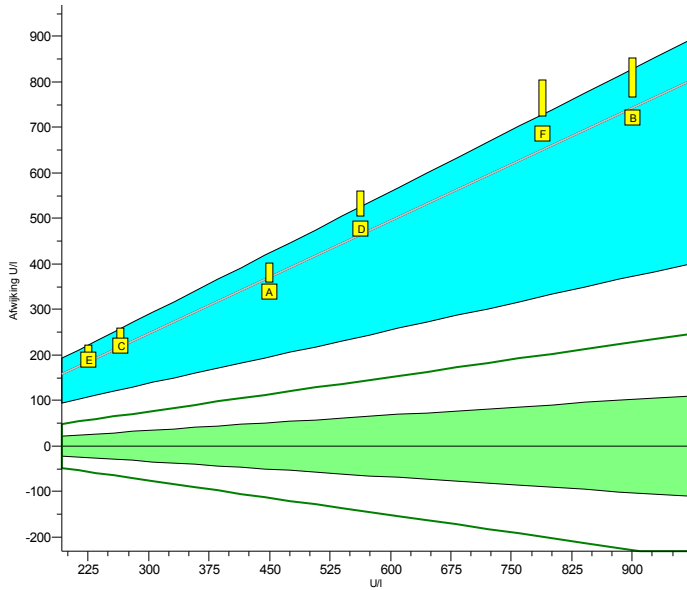
Legend

- Hexokinase, automatic
- Glucose-oxidase, amperometric, H2O2
- Glucose-oxidase/POD, automatic
- Other methods

INPUTS 2013.1

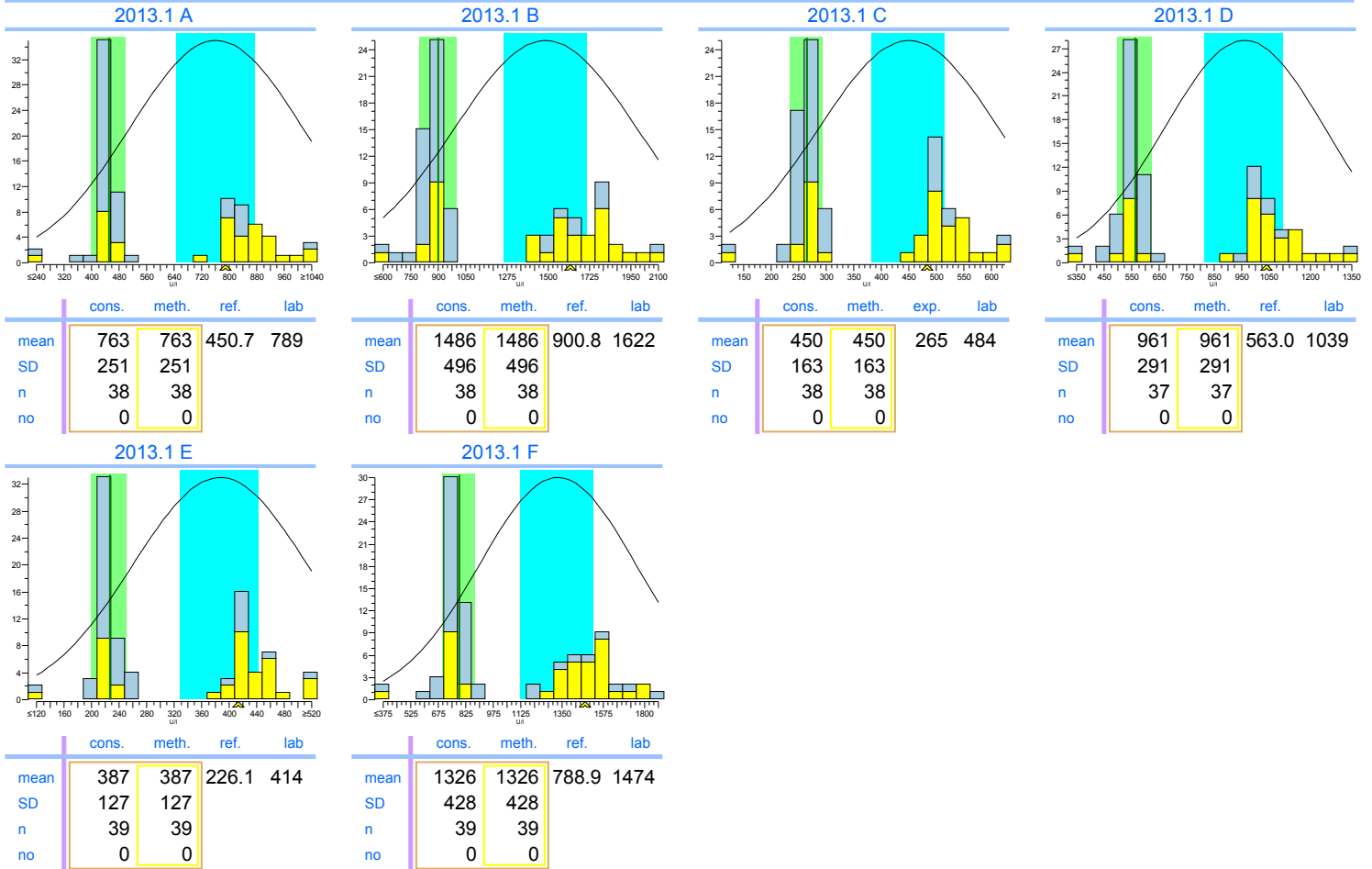
LD

units: U/I



	2013.1	cumulative
Trueness	+82%	+82%
Precision	2.6%	2.6%
Number	6	6
Outliers	0	0
Sigma-TE	-3.0	-3.0
Sigma-SA	-3.0 0	-3.0 0
Score pictogram		
Regression line	$0 + 1.825 \cdot x$	$0 + 1.825 \cdot x$

Consensus group niet IFCC traceerbaar
Method IFCC non-traceable



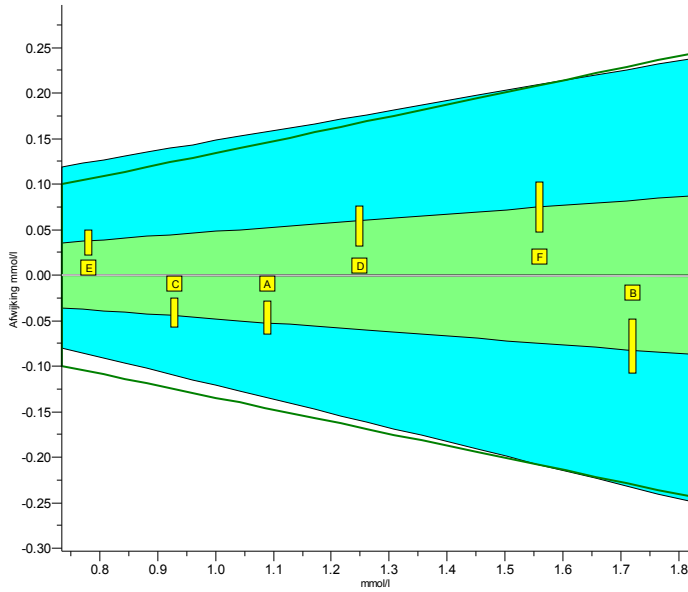
Legend

 IFCC non-traceable IFCC traceable

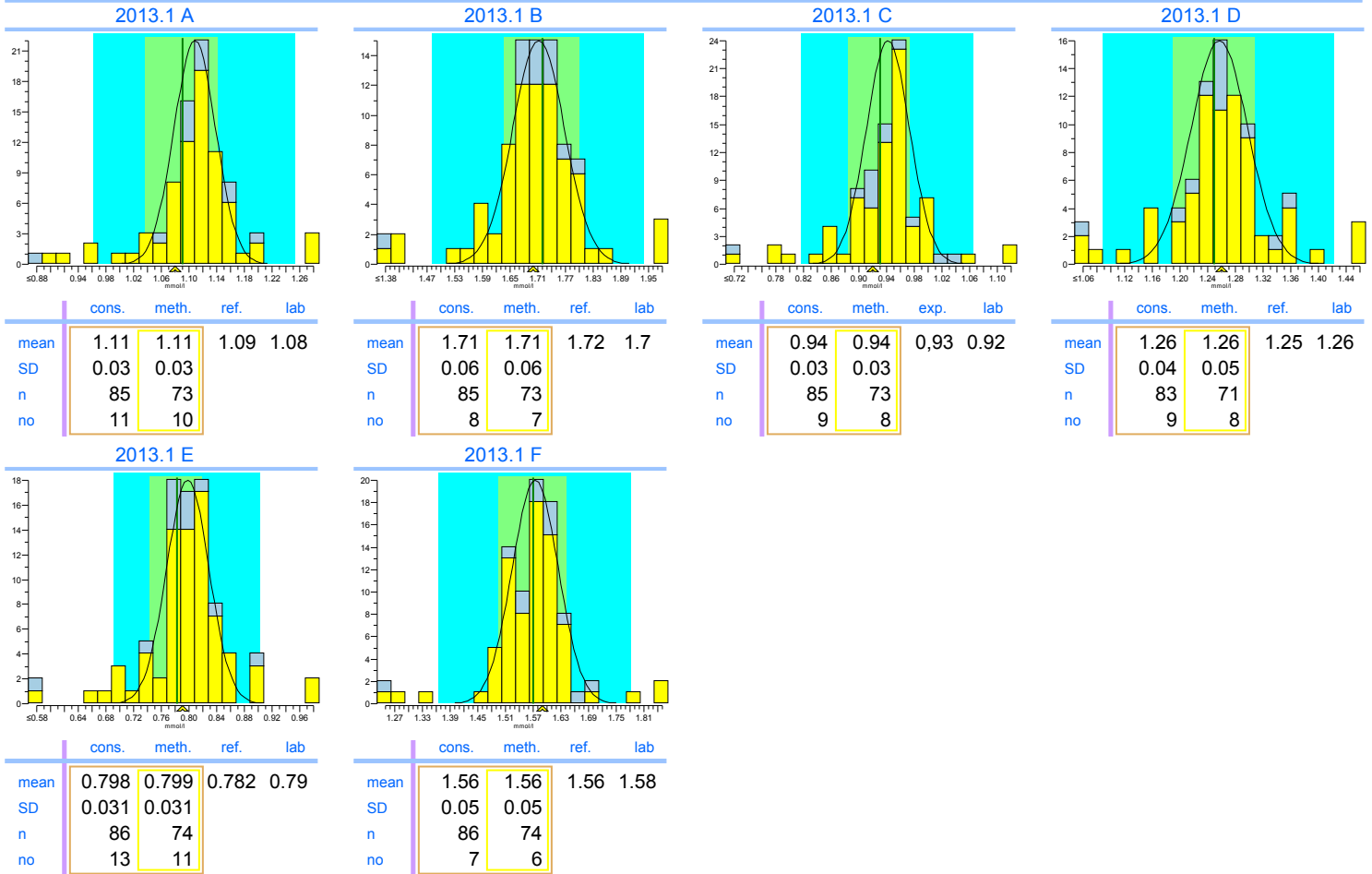
INPUTS 2013.1

Magnesium

units: mmol/l



	2013.1	cumulative
Trueness	-0.03%	-0.03%
Precision	1.4%	1.4%
Number	6	6
Outliers	0	0
Sigma-TE	3.5	3.5
Sigma-SA	6.0 2	6.0 2
Score pictogram		
Regression line	$0.00 + 1.000 \cdot x$	$0.00 + 1.000 \cdot x$
Consensus group	Overall	
Method	Colorimetric	



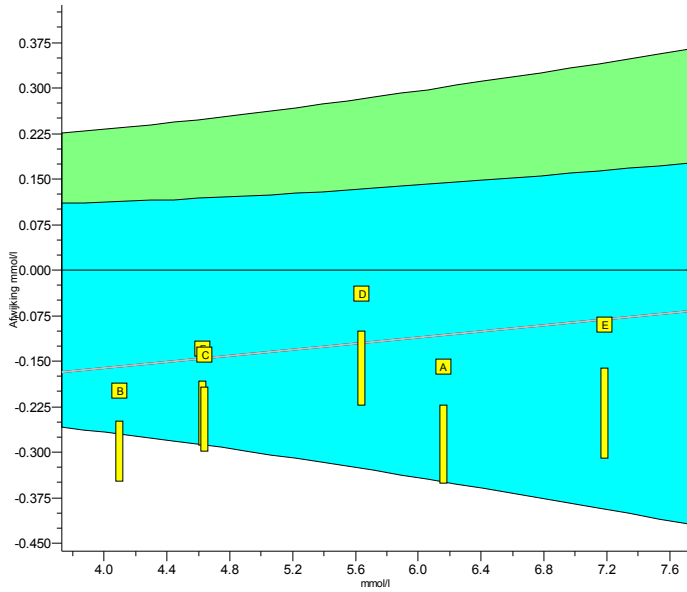
Legend





INPUTS 2013.1

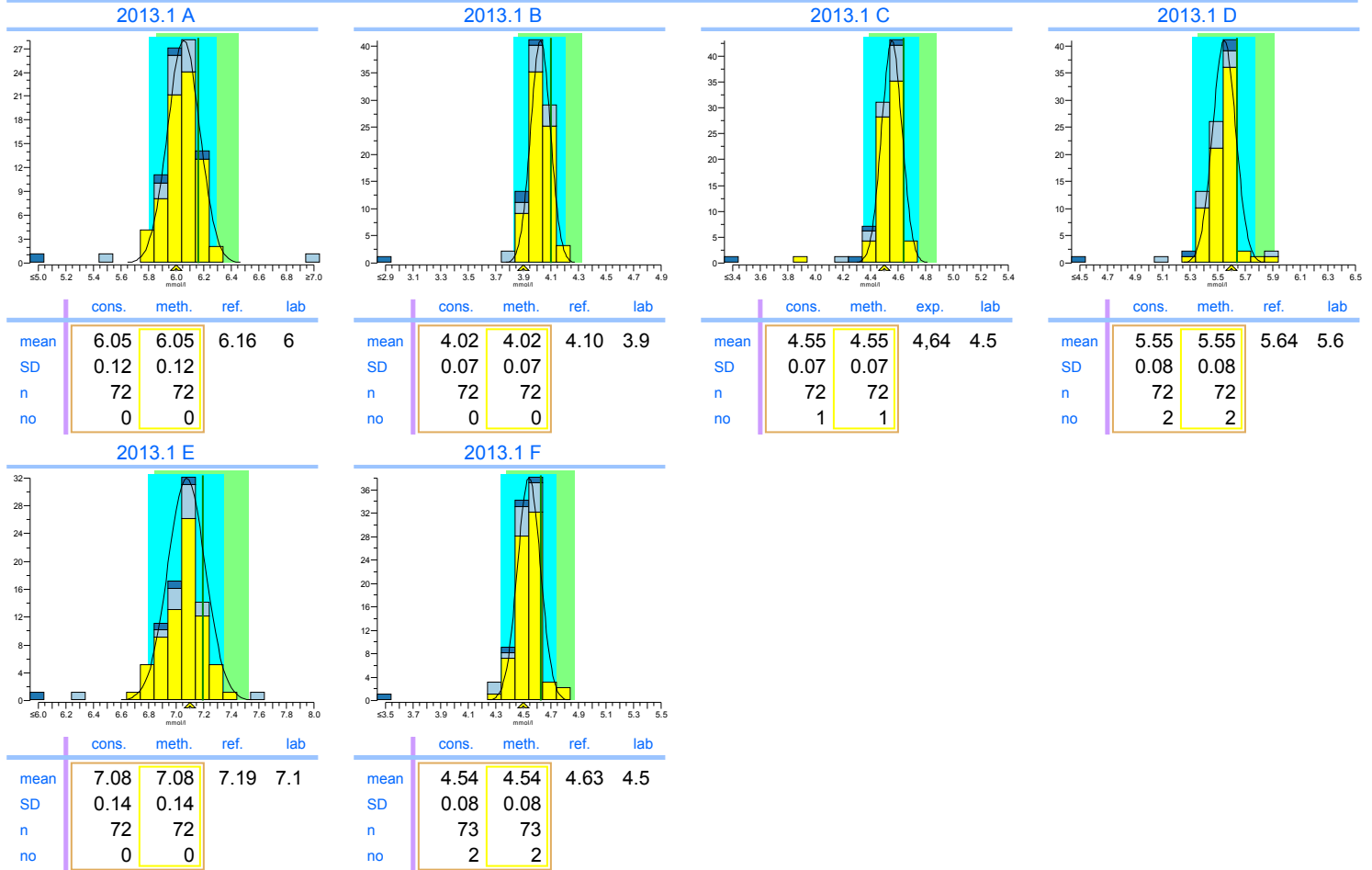
Potassium

units: mmol/l



	2013.1	cumulative
Trueness	-2.3%	-2.3%
Precision	0.90%	0.90%
Number	6	6
Outliers	0	0
Sigma-TE	3.8 1	3.8 1
Sigma-SA	2.7	2.7
Score pictogram		
Regression line	$-0.26 + 1.025.x$	$-0.26 + 1.025.x$

Consensus group ISE verdund/Vlamfotometrie
Method ISE indirect (with predilution)



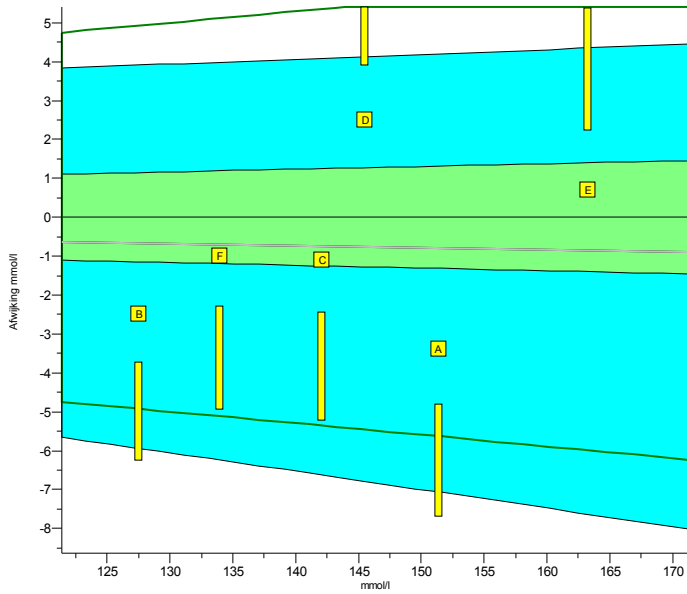
Legend

- ISE indirect (with predilution)
- ISE direct (no predilution)
- Other methods

INPUTS 2013.1

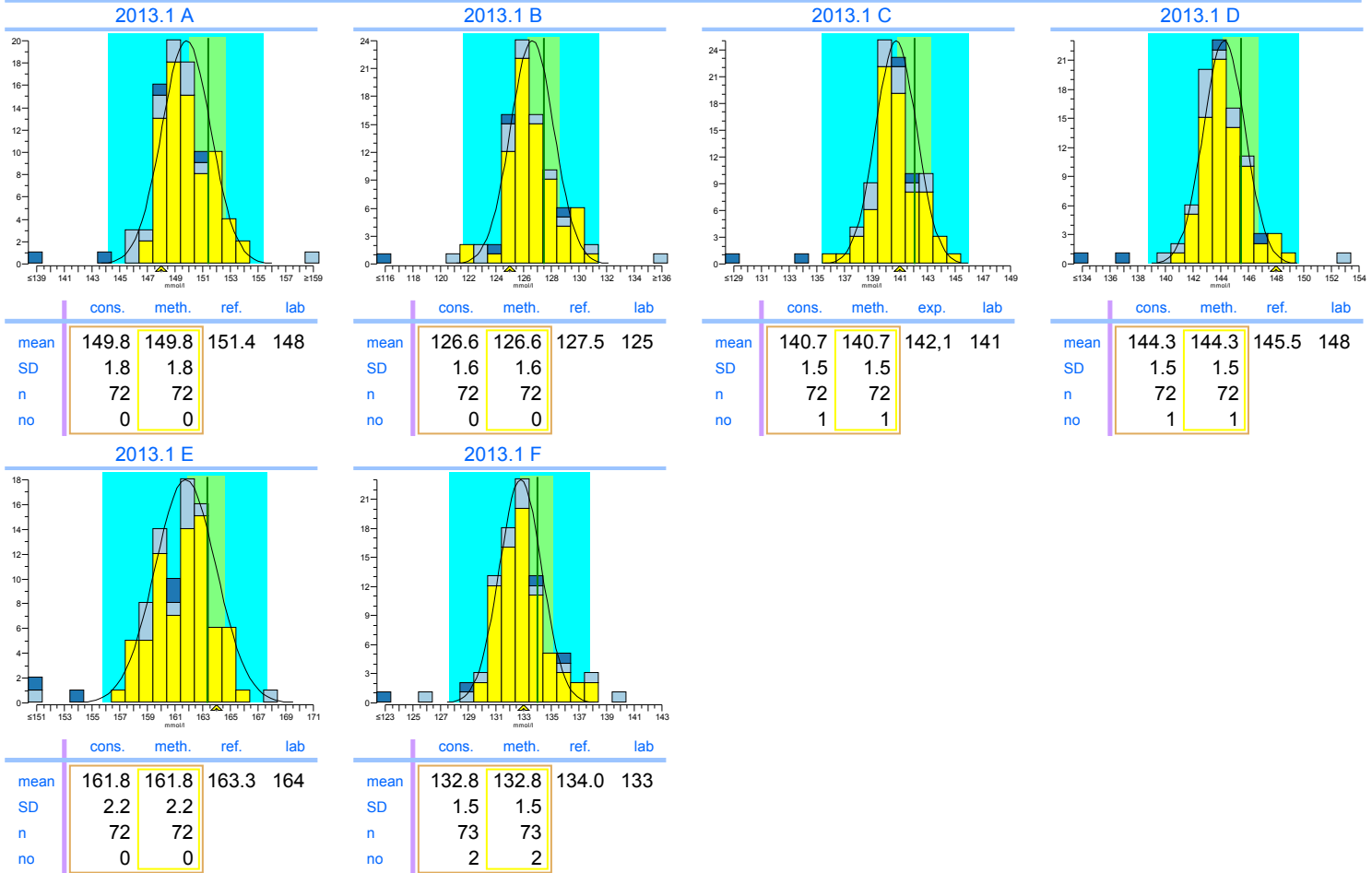
Sodium

units: mmol/l



	2013.1	cumulative
Trueness	-0.56%	-0.56%
Precision	1.5%	1.5%
Number	6	6
Outliers	0	0
Sigma-TE	0.3	0.3
Sigma-SA	3.9 1	3.9 1
Score pictogram		
Regression line	$0.0 + 0.995 \cdot x$	$0.0 + 0.995 \cdot x$

Consensus group ISE verdund/Vlamfotometrie
Method ISE indirect (with predilution)



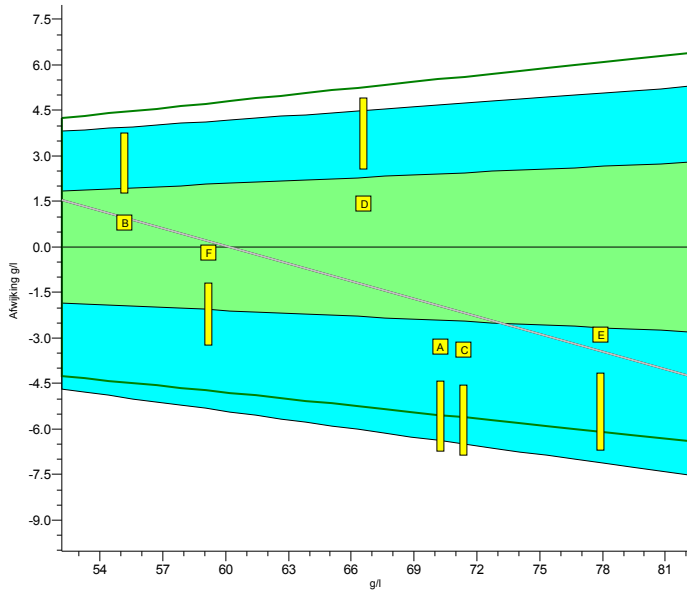
Legend

- ISE indirect (with predilution)
- ISE direct (no predilution)
- Other methods

INPUTS 2013.1

Total Protein

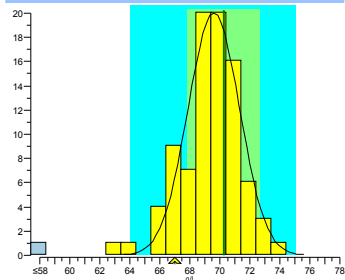
units: g/l



	2013.1	cumulative
Trueness	-1.9%	-1.9%
Precision	2.3%	2.3%
Number	6	6
Outliers	0	0
Sigma-TE	1.2	1.2
Sigma-SA	4.4 1	4.4 1
Score pictogram		
Regression line	$11.7 + 0.806.x$	$11.7 + 0.806.x$

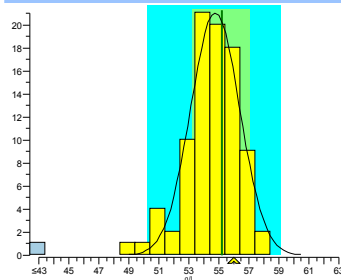
Consensus group Biureet
Method Biurete, automatic

2013.1 A



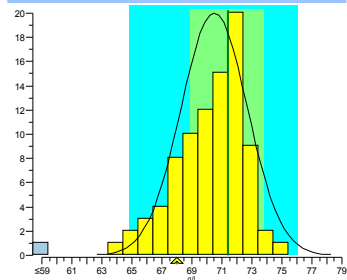
	cons.	meth.	ref.	lab
mean	69.6	69.6	70.3	67
SD	1.7	1.7		
n	88	88		
no	2	2		

2013.1 B



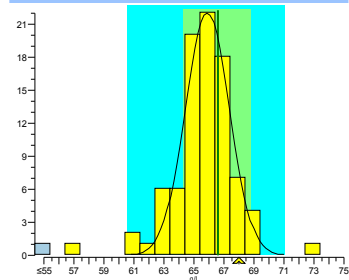
	cons.	meth.	ref.	lab
mean	54.8	54.8	55.2	56
SD	1.6	1.6		
n	88	88		
no	1	1		

2013.1 C



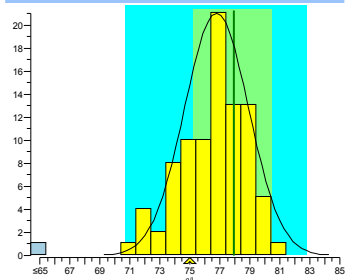
	cons.	meth.	exp.	lab
mean	70.5	70.5	71.4	68
SD	2.2	2.2		
n	87	87		
no	0	0		

2013.1 D



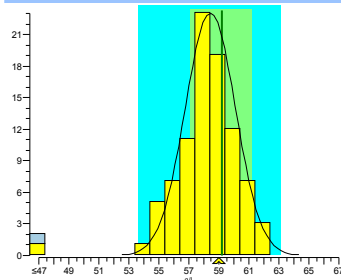
	cons.	meth.	ref.	lab
mean	65.9	65.9	66.6	68
SD	1.5	1.5		
n	88	88		
no	4	4		

2013.1 E



	cons.	meth.	ref.	lab
mean	76.8	76.8	77.9	75
SD	2.1	2.1		
n	88	88		
no	0	0		

2013.1 F



	cons.	meth.	ref.	lab
mean	58.4	58.4	59.2	59
SD	1.7	1.7		
n	89	89		
no	1	1		

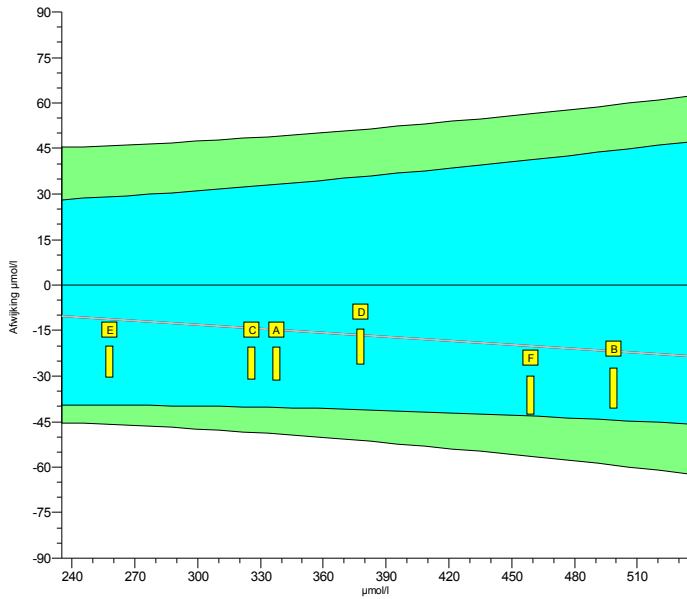
Legend

Biurete, automatic Other methods

INPUTS 2013.1

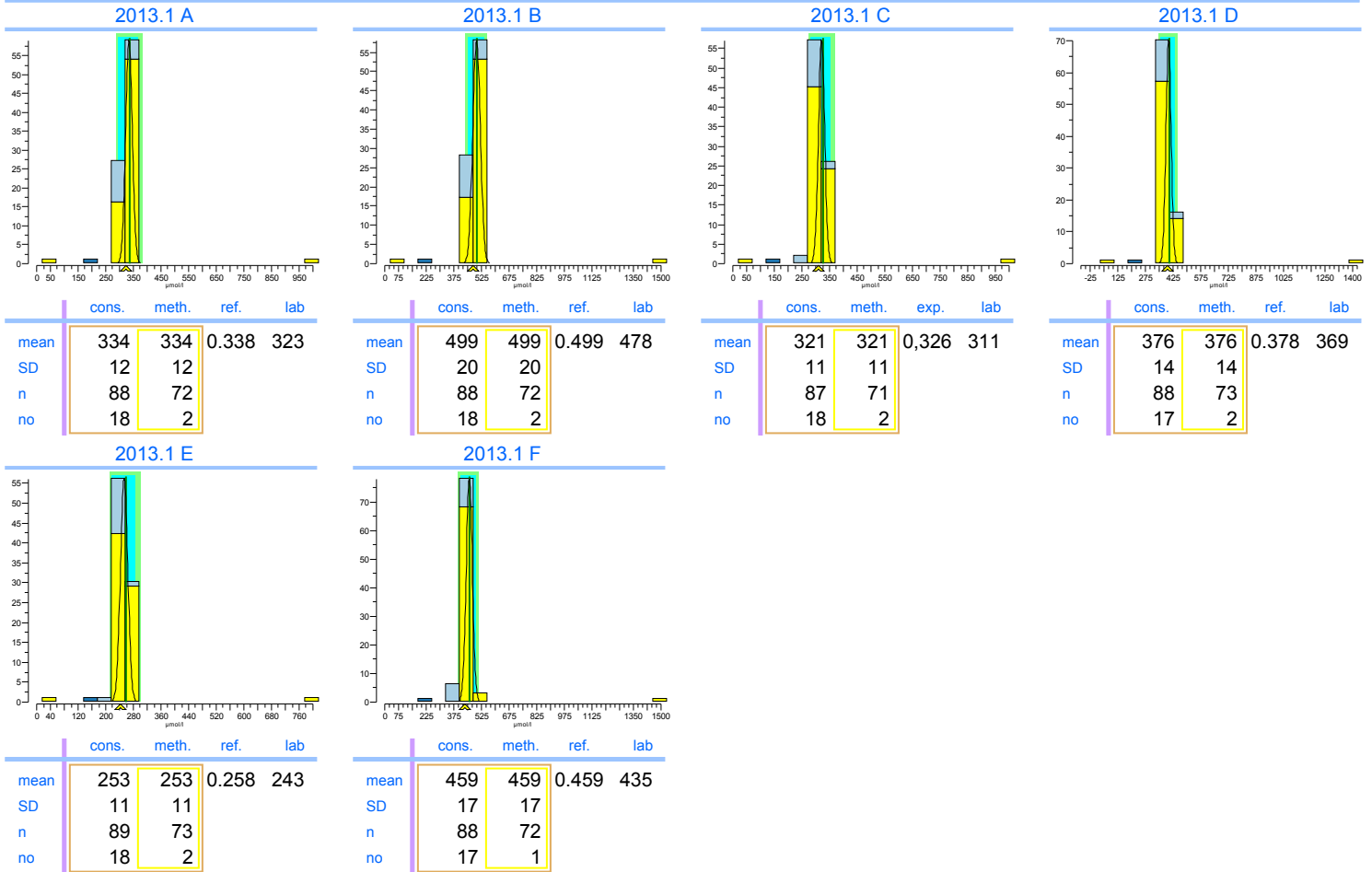
Urate

units: $\mu\text{mol/l}$



	2013.1	cumulative
Trueness	-4.4%	-4.4%
Precision	1.2%	1.2%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	5.5	5.5
Score pictogram		
Regression line	$0 + 0.956.x$	$0 + 0.956.x$

Consensus group Colorimetrisch
Method Uricase, colorim., automatic



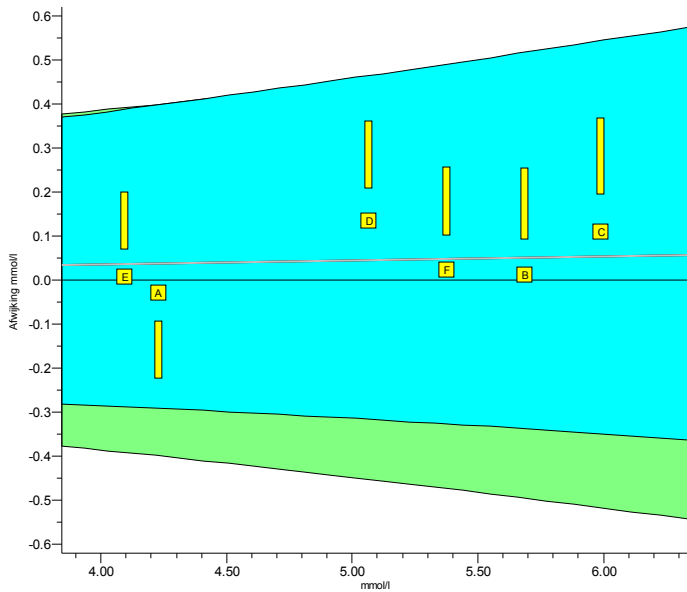
Legend



- Uricase, colorim., automatic
- Uricase, differential UV, automatic
- Overige methoden

INPUTS 2013.1

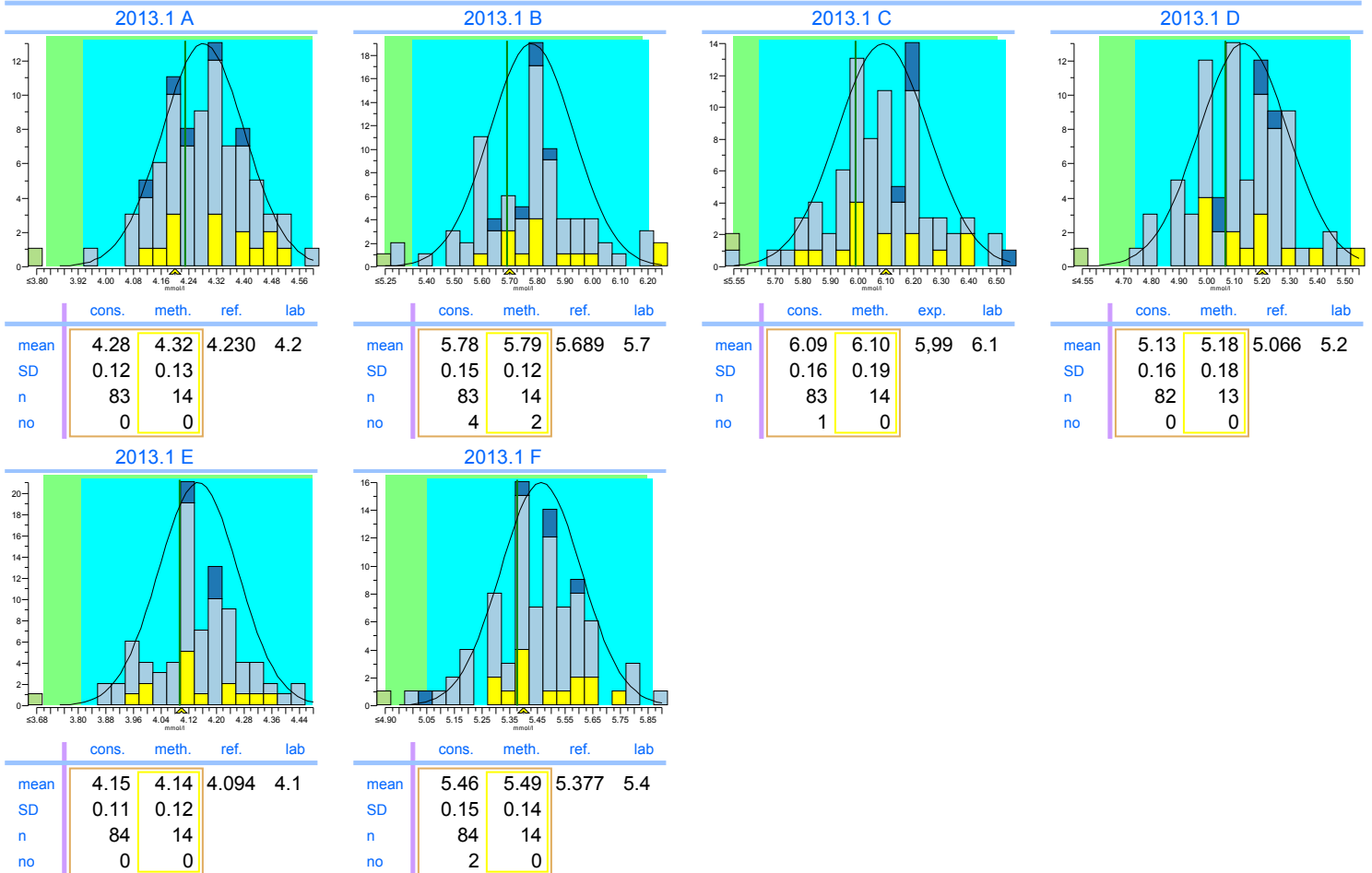
Cholesterol

units: mmol/l



	2013.1	cumulative
Trueness	+0.83%	+0.83%
Precision	1.2%	1.2%
Number	6	6
Outliers	0	0
Sigma-TE	6.0 2	6.0 2
Sigma-SA	6.0	6.0
Score pictogram		
Regression line	<u>0.00 + 1.009.x</u>	<u>0.00 + 1.009.x</u>

Consensus group	Enzymatisch
Method	Enzymatic, automatic, kinetic



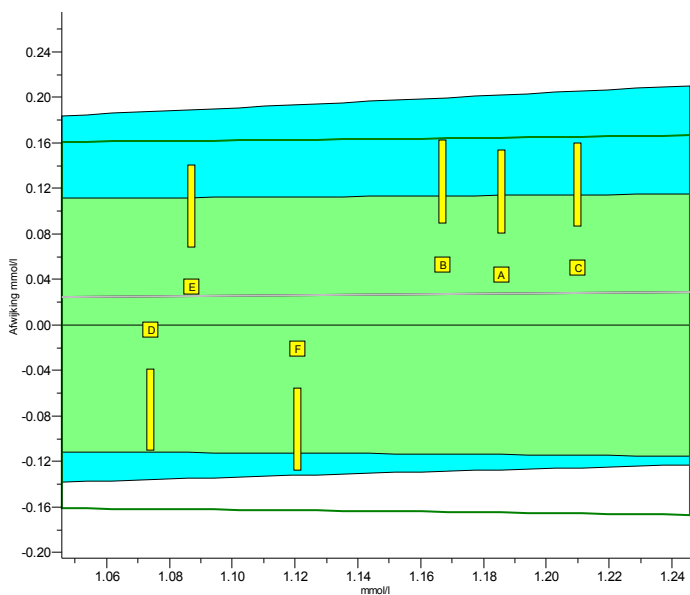
Legend

- Enzymatic, automatic, kinetic
- Enzymatic, automatic, discrete
- Abel-Kendall reference values
- Overige methoden

INPUTS 2013.1

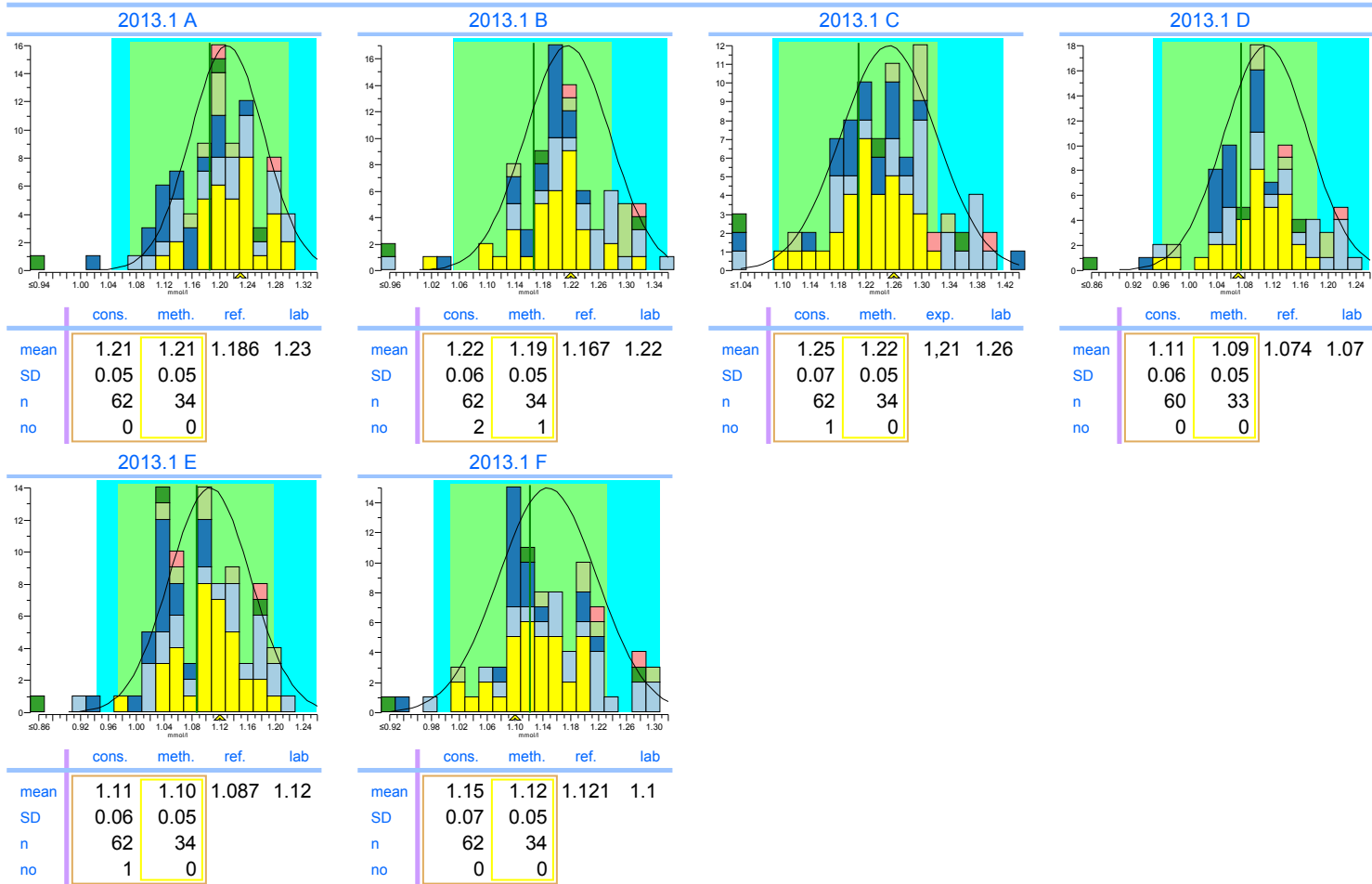
HDL-Cholesterol

units: mmol/l



	2013.1	cumulative
Trueness	+2.3%	+2.3%
Precision	2.5%	2.5%
Number	6	6
Outliers	0	0
Sigma-TE	3.5	3.5
Sigma-SA	5.2 2	5.2 2
Score pictogram		
Regression line	<u>0.00 + 1.023.x</u>	<u>0.00 + 1.023.x</u>

Consensus group	Direct
Method	PEG modified enzyme, PEGME (Kyowa Medex)



Legend

- PEG modified enzyme, PEGME (Kyowa Medex)
- Accelerator Selective Detergent (=Ultra HDL⁺)
- Immunoinhibition
- Catalase method (Denka Seiken)
- Overige methoden
- Precipitation Technique